



Address all telephone calls to Robert A. Hodges, at telephone number (678) 420-9300.

Address all correspondence to the address of record for Customer Number:

Customer No. 23859

Yale University

By: 

Name: Dorothy K. Robinson  
Vice President and General Counsel

Title: Yale University

Date: 12/8/03

**ATTORNEY DOCKET NO. 25006.0016U2****PAGE 1 of 8****ASSIGNMENT**

**WHEREAS**, we, Ronald R. Breaker, Ali Nahvi, Narasimhan Sudarsan, Margaret S. Ebert, Wade Winkler, Jeffrey E. Barrick, and John K. Wickiser, residing respectively at 133 Weatherly Trail, Guilford, CT 06437, 188 Lawrence Street #3, New Haven, CT 06511, 599A Prospect Street, New Haven, CT 06511, 107 West Broad Street, Hopewell, NJ 08525, 169 Livingston Street, New Haven, CT 06511, 169 Livingston Street, New Haven, CT 06511 and 541 Prospect Street #3, New Haven, CT 06511 have invented new and useful improvements in "RIBOSWITCHES, METHODS FOR THEIR USE, AND COMPOSITIONS FOR USE WITH RIBOSWITCHES" for which an application for United States Letters Patent was filed on September 22, 2003, and assigned Application No. 10/669,162; and claims benefit of U.S. Provisional Application No. 60/412,468, filed September 20, 2002.

**WHEREAS**, Yale University, whose post-office address is Two Whitney Avenue, New Haven, Connecticut 06511, is desirous of acquiring the entire interest in the same;

**NOW, THEREFORE**, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Ronald R. Breaker, Ali Nahvi, Narasimhan Sudarsan, Margaret S. Ebert, Wade Winkler, Jeffrey E. Barrick, and John K. Wickiser, hereby do sell, assign and transfer unto said Yale University, the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the International Convention arising from said application; the same for Yale University's legal representatives and

## ATTORNEY DOCKET NO. 25006.0016U2

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assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made;

AND, we hereby bind ourselves, our heirs, legal representatives, administrators and assigns properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid Yale University, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world.

IN WITNESS WHEREOF, I have executed this Assignment this \_\_\_\_\_ day  
of \_\_\_\_\_, 2003.

\_\_\_\_\_  
Ronald R. Breaker (L.S.)

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public, came Ronald R. Breaker, to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

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IN WITNESS WHEREOF, I have executed this Assignment this \_\_\_\_\_ day  
of \_\_\_\_\_, 2003.

\_\_\_\_\_  
Ali Nahvi (L.S.)

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public, came  
Ali Nahvi, to me known and known to be the individual described in and who executed the foregoing  
assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

ATTORNEY DOCKET NO. 25006.0016U2

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IN WITNESS WHEREOF, I have executed this Assignment this \_\_\_\_\_ day  
of \_\_\_\_\_, 2003.

\_\_\_\_\_  
Narasimhan Sudarsan (L.S.)

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public, came  
Narasimhan Sudarsan, to me known and known to be the individual described in and who executed the  
foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

ATTORNEY DOCKET NO. 25006.0016U2  
PAGE 5 of 8

IN WITNESS WHEREOF, I have executed this Assignment this 24<sup>th</sup> day  
of November, 2003.

Margaret S Ebert (L.S.)  
Margaret S. Ebert

ME City Cambridge  
State of Cambridge  
County of Cambridgeshire, England, UK

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public, came  
Margaret S. Ebert, to me known and known to be the individual described in and who executed the  
foregoing assignment, and she duly acknowledged the same to be her free act and deed.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

**ATTORNEY DOCKET NO. 25006.0016U2**  
**PAGE 6 of 8**

IN WITNESS WHEREOF, I have executed this Assignment this \_\_\_\_\_ day  
of \_\_\_\_\_, 2003.

\_\_\_\_\_  
Wade Winkler (L.S.)

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public, came  
Wade Winkler, to me known and known to be the individual described in and who executed the  
foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_



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PAGE 7 of 8

IN WITNESS WHEREOF, I have executed this Assignment this \_\_\_\_\_ day  
of \_\_\_\_\_, 2003.

\_\_\_\_\_  
Jeffrey E. Barrick (L.S.)

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public, came  
Jeffrey E. Barrick, to me known and known to be the individual described in and who executed the  
foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

**ATTORNEY DOCKET NO. 25006.0016U2**  
**PAGE 8 of 8**

IN WITNESS WHEREOF, I have executed this Assignment this \_\_\_\_\_ day  
of \_\_\_\_\_, 2003.

\_\_\_\_\_  
John K. Wickiser (L.S.)

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public, came  
John K. Wickiser, to me known and known to be the individual described in and who executed the  
foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

**ASSIGNMENT**

**WHEREAS**, we, Ronald R. Breaker, Ali Nahvi, Narasimhan Sudarsan, Margaret S. Ebert, Wade Winkler, Jeffrey E. Barrick, and John K. Wickiser, residing respectively at 133 Weatherly Trail, Guilford, CT 06437, 188 Lawrence Street #3, New Haven, CT 06511, 599A Prospect Street, New Haven, CT 06511, 107 West Broad Street, Hopewell, NJ 08525, 169 Livingston Street, New Haven, CT 06511, 169 Livingston Street, New Haven, CT 06511 and 541 Prospect Street #3, New Haven, CT 06511 have invented new and useful improvements in "RIBOSWITCHES, METHODS FOR THEIR USE, AND COMPOSITIONS FOR USE WITH RIBOSWITCHES" for which an application for United States Letters Patent was filed on September 22, 2003, and assigned Application No. 10/669,162; and claims benefit of U.S. Provisional Application No. 60/412,468, filed September 20, 2002.

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assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made;

AND, we hereby bind ourselves, our heirs, legal representatives, administrators and assigns properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid Yale University, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world.

IN WITNESS WHEREOF, I have executed this Assignment this 19 day  
of Nov., 2003.

Ronald R. Breaker (L.S.)  
Ronald R. Breaker

State of Connecticut

County of New Haven

On this 19<sup>th</sup> day of November, 2003, before me, a Notary Public, came Ronald R. Breaker, to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

Tara Noe  
Notary Public Tara Noe

My Commission Expires: April 30, 2007

IN WITNESS WHEREOF, I have executed this Assignment this 17<sup>th</sup> day  
of November, 2003.

Ali Nahvi (L.S.)  
Ali Nahvi

State of Connecticut

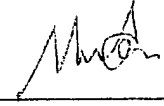
County of New Haven

On this 17<sup>th</sup> day of November, 2003, before me, a Notary Public, came  
Ali Nahvi, to me known and known to be the individual described in and who executed the foregoing  
assignment, and he duly acknowledged the same to be his free act and deed.

Tara Noe  
Notary Public

My Commission Expires: April 30, 2007

IN WITNESS WHEREOF, I have executed this Assignment this 17<sup>th</sup> day  
of November, 2003.

  
\_\_\_\_\_  
Narasimhan Sudarsan (L.S.)

State of Connecticut

County of New Haven

On this 17<sup>th</sup> day of November, 2003, before me, a Notary Public, came  
Narasimhan Sudarsan, to me known and known to be the individual described in and who executed the  
foregoing assignment, and he duly acknowledged the same to be his free act and deed.

  
\_\_\_\_\_  
Notary Public Tara Noor

My Commission Expires: April 30, 2007

IN WITNESS WHEREOF, I have executed this Assignment this \_\_\_\_\_ day  
of \_\_\_\_\_, 2003.

\_\_\_\_\_  
Margaret S. Ebert (L.S.)

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public, came  
Margaret S. Ebert, to me known and known to be the individual described in and who executed the  
foregoing assignment, and she duly acknowledged the same to be her free act and deed.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have executed this Assignment this 19<sup>th</sup> day  
of November, 2003.

Wade Winkler (L.S.)  
Wade Winkler

State of Connecticut  
County of New Haven

On this 19<sup>th</sup> day of November, 2003, before me, a Notary Public, came  
Wade Winkler, to me known and known to be the individual described in and who executed the  
foregoing assignment, and he duly acknowledged the same to be his free act and deed.

Tara Noë  
Notary Public

My Commission Expires: April 30, 2007



IN WITNESS WHEREOF, I have executed this Assignment this 17<sup>th</sup> day  
of November, 2003.

Jeffrey E. Barrick (L.S.)  
Jeffrey E. Barrick

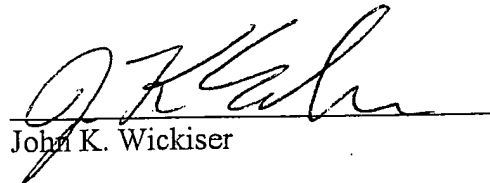
State of Connecticut  
County of New Haven

On this 17<sup>th</sup> day of November, 2003, before me, a Notary Public, came  
Jeffrey E. Barrick, to me known and known to be the individual described in and who executed the  
foregoing assignment, and he duly acknowledged the same to be his free act and deed.

Tara Noel  
Notary Public Tara Noel

My Commission Expires: April 30, 2007

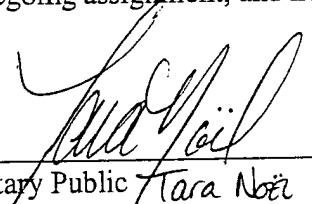
IN WITNESS WHEREOF, I have executed this Assignment this 17 day  
of November, 2003.

 (L.S.)  
John K. Wickiser

State of Connecticut

County of New Haven

On this 17<sup>th</sup> day of November, 2003, before me, a Notary Public, came  
John K. Wickiser, to me known and known to be the individual described in and who executed the  
foregoing assignment, and he duly acknowledged the same to be his free act and deed.

  
Notary Public Tara Noia

My Commission Expires: April 30, 2007



ATTORNEY DOCKET NO. 25006.0016U2  
APPLICATION NO. 10/669,162

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

  
Robert A. Hodges

  
Date